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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/991,140 | 11/16/2001 | Eser Kandogan | ARC920010111US1 | 4809 |

30355 7590 08/05/2004

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| |
|----------|
| EXAMINER |
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EDWARDS JR, TIMOTHY

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|----------|--------------|
| ART UNIT | PAPER NUMBER |
|----------|--------------|

2635

DATE MAILED: 08/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/991,140

Applicant(s)

KANDOGAN ET AL.

Examiner

Timothy Edwards, Jr.

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stone '193.

Considering claim 1, Stone discloses keyboards including color coding and one handed operation comprising, a) a plurality of characters displayed on the keys have associated markings such that any given character marking on that key is uniquely identified with a single displayed character (see fig 1, items 14a-14d); b) a plurality of keys having respective markings that visually match character markings (see fig 1, items 14a-14d and 16a-16d); c) selecting a first character, having a first marking, displayed on a first one of 8 keys and then selecting a key displaying the first marking (see col 2, lines 19-31); d) selecting a second character, having a second marking, displayed on a first one of 8 keys and then selecting a key displaying the second marking, keys displaying the first and second marking are different (see col 3, lines 29-40); e) except Stone does not specifically recite numeral 0 through 9 are inclusive displayed on a respective one of the keys and at least 8 of the numeral-displayed keys further have language character displayed thereon. However, Stone addresses in col 1, line 43 to col 2, line 2 the need

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for a telecomputing one-handed, pocket sized device having a full typewriter keyboard which can be used to send and receive messages and enter alphanumeric characters. Also, Stone suggests in col 6, lines 34-38 the changing and rearranging of letters to suit a particular device. Therefore, it would have been obvious to use the color coding dual key entry method taught by Stone in telephone device because Stone expresses that his method is suited for a pocket sized telecomputing system having all the letters of a full size keyboard that can be widely used to send and receive messages and operable with one hand for selecting a variety of characters and Stone suggests the modification and rearranging to suit a particular device.

Considering claim 2, Stone discloses the limitation of this claim in col 2, lines 19-40.

Considering claim 3, Stone discloses the limitation of this claim in fig 1.

Considering claim 4, Stone discloses the limitation of this claim in col 2, lines 26-31.

Considering claim 5, the limitation of this claim is interpreted and rejected as stated in part (e) of claim 1.

Considering claim 6, Stone discloses the limitation of this claim in fig 1.

Considering claims 7-11, the limitations of these claims are interpreted and rejected as stated in part (e) of claim 1.

Considering claims 12,18,19 Stone discloses the limitations of these claims in fig 1.

Considering claim 13, the limitation of this claim is interpreted and rejected as stated in claim 1.

Considering claim 14, Stone discloses the limitation of this claim in fig 1.

Considering claims 15-17,20-23 the limitations of these claims are interpreted and rejected as stated in part (e) of claim 1.

Considering claim 24, the limitation of this claim is interpreted and rejected as stated in claim 1.

Considering claim 25, the limitation of this claim is interpreted and rejected as stated in claim 1 and in col 5, lines 48-60.

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is Prame [US 4,988,997], [US 4,381,502] and [US 4,344,069],

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Smith [US 4,585,908] and Messina [US 4,307,266]. All cited references disclose a method of entering alphanumeric data using a two key sequence method.

2. Any inquiry concerning this communication should be directed to Examiner Timothy Edwards at telephone number (703) 305-4896. The examiner can normally be reached on Monday-Thursday, 8:30 a.m.-4:00 p.m. The examiner cannot be reached on Fridays.

If attempt to reach the examinee by telephone are unsuccessful, the examiner's supervisor, Michael Horabik, can be reached on (703) 305-4704.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700, Mon-Fri., 8:30 a.m.-5:00 p.m.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or fax to:

(703), 872-9314 (for formal communications intended for entry)

Or:

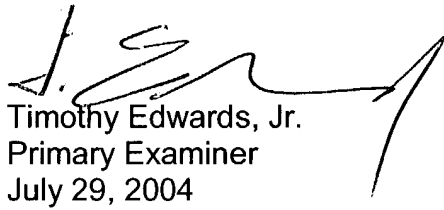
----- (for informal or draft communications, please label "PROPOSED" -----

or "DRAFT")

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Hand-delivered responses should be brought to Crystal Park II, 2121

Crystal Drive, Arlington. VA, Sixth Floor (Receptionist).



Timothy Edwards, Jr.
Primary Examiner
July 29, 2004